



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, Northeast

Mitchell County

St Ansgar	25	0051CST			0	0	2K	Hail(0.88)
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Storm spotters reported hail the size of nickels.

MINNESOTA, Southeast

Olmsted County

5 NE Rochester	24	0934CST			0	0	2.5K	4.5K	Hail(1.75)
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Olmsted County

3 SW Potsdam	24	0944CST			0	0			Hail(0.75)
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Olmsted County

Viola	24	0947CST			0	0	0.80K	3K	Hail(1.00)
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Fillmore County

Rushford	24	1023CST			0	0		4K	Hail(0.88)
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Winona County

Hart	24	1023CST 1033CST			0	0	0.75K	3.5K	Hail(0.88)
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Houston County

5 W Money Creek	24	1029CST 1034CST			0	0		3.5K	Hail(1.00)
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Olmsted County

2 NW Oronoco	24	1115CST			0	0	1.5K	5K	Hail(1.75)
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Dodge County

5 NE Mantorville	24	1120CST			0	0			Hail(1.75)
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Olmsted County

Oronoco	24	1123CST			0	0			Hail(0.75)
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Olmsted County

3 WSW Oronoco	24	1123CST			0	0	2K	3.5K	Hail(1.75)
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Olmsted County

Oronoco	24	1131CST			0	0	1.5K		Hail(1.00)
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Olmsted County

5 E Oronoco	24	1141CST			0	0			Hail(0.75)
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The first of two rounds of severe thunderstorms affected southeast Minnesota in the morning and early afternoon. Hail ranging in size from pennies to as large as golf balls was reported by law enforcement officials, storm spotters, amateur radio operators and the public. In fact, near Oronoco (Olmsted County) storm spotters reported the ground was completely covered by golf ball size hail

Olmsted County

4 SW Oronoco	24	1825CST			0	0	3K		Hail(1.00)
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Olmsted County

2 NW Oronoco	24	1826CST			0	0	4K		Hail(1.75)
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Olmsted County

1 S Oronoco	24	1830CST			0	0	0.25K		Thunderstorm Wind (EG52)
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Olmsted County

Oronoco	24	1831CST			0	0			Hail(0.75)
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Olmsted County

Oronoco	24	1833CST			0	0	3K		Hail(1.00)
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Olmsted County

Oronoco	24	1835CST			0	0	0.50K		Thunderstorm Wind (EG50)
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					Killed	Injured	Property	Crops	
<u>MINNESOTA, Southeast</u>									
Olmsted County 5 SE Oronoco	24	1838CST			0	0			Hail(0.75)
Olmsted County Rochester	24	1840CST			0	0	5K		Hail(1.00)
Wabasha County 3 S Mazeppa	24	1840CST			0	0		2.5K	Hail(1.00)
Olmsted County Douglas	24	1845CST			0	0	0.75K		Thunderstorm Wind (EG52)
Olmsted County 7 NE Rochester	24	1851CST			0	0		4K	Hail(1.75)
Olmsted County Byron	24	1909CST			0	0			Thunderstorm Wind (EG52)
Olmsted County Byron	24	1910CST			0	0			Hail(0.75)
Olmsted County Rochester Arpt	24	1924CST			0	0			Thunderstorm Wind (MG52)
Olmsted County Rock Dell	24	1926CST			0	0			Thunderstorm Wind (MG52)
Olmsted County Rochester Arpt	24	1927CST			0	0			Thunderstorm Wind (MG57)
Olmsted County Rochester	24	1929CST			0	0	0.75K		Thunderstorm Wind (EG54)
Olmsted County 2 NE Rochester	24	1929CST			0	0	0.50K		Thunderstorm Wind (EG55)
Olmsted County Rochester Arpt	24	1929CST			0	0			Thunderstorm Wind (MG64)
Olmsted County Stewartville	24	1930CST			0	0	30K		Thunderstorm Wind (EG60)
Fillmore County Washington	24	1934CST			0	0	0.80K		Thunderstorm Wind (EG54)
Mower County Racine	24	2008CST			0	0	0.50K		Thunderstorm Wind (EG53)
Mower County Austin	24	2010CST			0	0	1K		Thunderstorm Wind (EG54)
Fillmore County 4 S Lanesboro	24	2011CST			0	0		2K	Hail(0.88)
Fillmore County 1 E Whalan	24	2013CST			0	0			Hail(0.75)
Houston County 3 SW Reno	24	2053CST			0	0			Hail(0.75)
Dodge County Kasson	24	2311CST			0	0			Hail(0.75)

A second round of severe thunderstorms affected southeast Minnesota in the evening, producing hail up to the size of golf balls, along with near hurricane force winds. In fact, wind gusts were measured at 74 mph at the Rochester International Airport (Olmsted County). The town of Stewartville (Olmsted County) was especially hard hit, with significant damage to several mobile homes, which was caused by thunderstorm winds.



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					Killed	Injured	Property	Crops	

MINNESOTA, Southeast

Dodge County

Countywide	24 25	2000CST 0015CST			0	0	10K	10K	Flash Flood
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Mower County

West Portion	24 25	2130CST 0030CST			0	0	5K	8K	Flash Flood
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Flash flooding was caused when 3 to 4 inches of rain fell in a couple hours. Law enforcement officials reported cars stalled in knee deep water on Interstate 90 near Austin (Mower County). In addition, law enforcement officials reported basement flooding, as well as water a foot and a half deep in the town of Dodge Center (Dodge County).

WISCONSIN, Southwest

Clark County

4 NW Willard	23	1410CST			0	0			Hail(0.75)
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Clark County

3 W Greenwood	23	1412CST			0	0			Hail(0.75)
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Clark County

3 SW Neillsville	23	1625CST			0	0			Hail(0.75)
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Jackson County

14 E Millston	23	1635CST			0	0	50K	500K	Hail(2.00)
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Jackson County

2 S Hatfield	23	1650CST			0	0			Hail(0.75)
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Jackson County

10 SE Price	23	1700CST			0	0	0.25K		Thunderstorm Wind (EG52)
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Jackson County

2 W Merrilan	23	1705CST			0	0	50K	20K	Hail(1.25)
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Clark County

10 E Humbird	23	1715CST			0	0	25K	80K	Hail(1.75)
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Jackson County

Merrilan	23	1720CST			0	0	9K	15K	Hail(1.75)
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Jackson County

5 NE Black River Falls	23	1725CST			0	0	0.25K		Thunderstorm Wind (EG55)
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Jackson County

3 SE Black River Falls	23	1732CST			0	0	25K	30K	Hail(1.00)
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Jackson County

3 SE Black River Falls	23	1735CST			0	0	50K	30K	Hail(1.75)
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Monroe County

1 S Kirby	23	1755CST			0	0	15K	500K	Hail(2.00)
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Monroe County

1 SW Kirby	23	1755CST			0	0	50K	500K	Thunderstorm Wind (EG65)
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Monroe County

5 WSW Warrens	23	1755CST			0	0	500K	3.5M	Hail(1.75)
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Monroe County

2 S Warrens	23	1755CST			0	0	10K	500K	Thunderstorm Wind (EG55)
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Monroe County

5 WSW Warrens	23	1755CST			0	0	500K	2.5M	Thunderstorm Wind (MG61)
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Monroe County

Kirby	23	1800CST			0	0	100K	1M	Thunderstorm Wind (EG61)
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Location	Date				Killed	Injured	Property	Crops	
<u>WISCONSIN, Southwest</u>									
Monroe County 3 S Warrens	23	1802CST			0	0	150K	3.5M	Thunderstorm Wind (EG61)
Monroe County 1 S Tunnel City	23	1803CST			0	0	60K	50K	Hail(2.50)
Monroe County 1 E Tunnel City	23	1806CST			0	0	20K	30K	Hail(1.00)
Monroe County Tomah	23	1808CST			0	0			Hail(0.75)
Monroe County Tomah	23	1815CST			0	0	500K		Thunderstorm Wind (EG65)
Monroe County 2 NW Oakdale	23	1821CST			0	0	30K	100K	Hail(1.00)
Jackson County 14 E Millston	23	1835CST			0	0	75K	50K	Hail(2.00)
Juneau County 1 SW Union Center	23	1840CST			0	0	25K	40K	Hail(1.75)
Juneau County Union Center	23	1842CST			0	0			Hail(0.75)
Juneau County Union Center	23	1845CST			0	0	25K	75K	Hail(1.50)
Juneau County 1 SW Union Center	23	1845CST			0	0	10K	60K	Hail(1.75)
Vernon County 1 E Hillsboro	23	1845CST			0	0	25K	50K	Hail(1.75)
Vernon County Hillsboro	23	1845CST			0	0	25K	50K	Hail(1.75)
Vernon County 1 NE Hillsboro	23	1845CST			0	0			Hail(0.75)
Vernon County Hillsboro	23	1848CST			0	0	25K	50K	Hail(1.75)
Juneau County Wonewoc	23	1857CST			0	0			Hail(0.75)
Monroe County 1 W Warrens	23	1857CST			0	0	10K	50K	Hail(0.88)
Juneau County Wonewoc	23	1858CST			0	0			Hail(0.75)
Richland County Cazenovia	23	1911CST			0	0	20K	50K	Hail(1.75)
Jackson County 15 E Millston	23	1935CST			0	0	10K	50K	Hail(1.00)
Vernon County 4 N Hillsboro	23	1950CST			0	0	40K	50K	Hail(1.75)
Juneau County Union Center	23	1956CST			0	0			Hail(0.75)
Juneau County 1 NE Union Center	23	2000CST			0	0	50K	60K	Hail(1.50)
Monroe County 1 NE Tomah	23	2038CST			0	0	10K	5K	Hail(0.88)



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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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WISCONSIN, Southwest

Monroe County									
Oakdale	23	2043CST			0	0	35K	5K	Hail(1.75)
Adams County									
3 S Brooks	23	2327CST 2337CST			0	0			Hail(0.75)
Adams County									
2 S Brooks	23	2335CST			0	0	25K	10K	Hail(1.00)
Jackson County									
14 E Millston	24	0000CST			0	0	20K	250K	Hail(1.00)
Juneau County									
2 N Necedah	24	0035CST			0	0	30K	10K	Hail(1.00)
Juneau County									
1 E New Lisbon	24	0037CST			0	0	25K	20K	Hail(1.75)
Juneau County									
Elroy	24	0245CST			0	0	30K	60K	Hail(1.00)
Juneau County									
Wonevot	24	0255CST			0	0	40K	40K	Hail(1.75)

Hail as large as baseballs, along with thunderstorm wind gusts as high as 75 mph, were reported by law enforcement officials, storm spotters, amateur radio operators and the public. Hail storms repeatedly moved over the same areas, especially along the Interstate 94 corridor. Hardest hit was the area from near Millston (Jackson County) to Warrens and Tomah (Monroe County), where large hail substantially damaged corn and soybean fields, as well as cranberry plants. In fact, cranberry plant loss was projected at 50 percent. Large hail also shattered windshields of numerous vehicles, broke windows and damaged roofs and siding of homes. In addition to the hail, Tomah was hard hit by thunderstorm winds, which flipped over large fuel tanks at a gas station and tossed shopping carts onto cars in a department store parking lot. During this severe weather event alone, crop damage across southwest Wisconsin totaled close to 14 million dollars, with damage to vehicles and homes totaling nearly 3 million dollars.

Vernon County									
1 S Genoa	24	1115CST			0	0			Hail(0.75)
Crawford County									
4 NNW Ferryville	24	1130CST			0	0			Hail(0.75)
Vernon County									
7 E Victory	24	1131CST			0	0			Hail(0.75)
Richland County									
Sextonville	24	1155CST			0	0		2K	Hail(0.88)
Richland County									
Port Andrew	24	1158CST			0	0			Hail(0.75)

Penny to nickel size hail was reported by storm spotters, amateur radio operators and the public.

Buffalo County									
1 N Mondovi	24	1613CST			0	0	2K	8K	Hail(1.75)
Buffalo County									
1 N Mondovi	24	1613CST			0	0	3K	3K	Thunderstorm Wind (EG52)
Trempealeau County									
Eleva	24	1628CST			0	0	1K	3K	Hail(0.88)
Trempealeau County									
Strum	24	1641CST			0	0		3K	Hail(1.00)



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					Killed	Injured	Property		Crops
<u>WISCONSIN, Southwest</u>									
Trempealeau County									
Strum	24	1641CST			0	0	2.5K	3K	Thunderstorm Wind (EG55)
Buffalo County									
Maxville	24	1700CST			0	0			Hail(0.75)
Buffalo County									
5 NW Alma	24	1720CST			0	0		2K	Hail(0.88)
Jackson County									
5 NW Alma Center	24	1720CST			0	0			Hail(0.75)
Jackson County									
5 NW Alma Center	24	1720CST			0	0		2.5K	Thunderstorm Wind (EG52)
Buffalo County									
2 S Modena	24	1722CST			0	0			Hail(0.75)
Buffalo County									
4 S Modena	24	1724CST			0	0			Hail(0.75)
Buffalo County									
2 S Modena	24	1724CST			0	0	2K	3K	Thunderstorm Wind (EG52)
Trempealeau County									
Elk Creek	24	1756CST			0	0	1K	4K	Hail(1.00)
Trempealeau County									
Independence	24	1757CST			0	0	3K	4K	Hail(1.75)
Trempealeau County									
Independence	24	1808CST			0	0	2K	4K	Hail(1.50)
Trempealeau County									
5 S Whitehall	24	1812CST			0	0	3K	3K	Hail(1.75)
Trempealeau County									
5 S Whitehall	24	1812CST			0	0	4K	5K	Thunderstorm Wind (EG70)
Buffalo County									
Nelson	24	1825CST			0	0			Thunderstorm Wind (EG52)
Jackson County									
Taylor	24	1832CST			0	0	2.5K	3K	Hail(1.75)
Jackson County									
2 NW Black River Falls	24	1847CST			0	0	2K	3K	Hail(1.00)
Jackson County									
Black River Falls	24	1855CST			0	0	3K		Hail(1.00)
Jackson County									
2 SW Black River Falls	24	1855CST			0	0		4K	Hail(1.75)
Jackson County									
Black River Falls	24	1855CST			0	0			Thunderstorm Wind (EG55)
Jackson County									
4 SW Black River Falls	24	1904CST			0	0		2K	Hail(0.88)
Hail up to the size of golf balls was reported by amateur radio operators, law enforcement officials, storm spotters and the public. Near Mondovi (Buffalo County), corn and soybean fields were shredded by large hail. In addition, trees and power lines were knocked down by thunderstorm wind gusts. Hardest hit were areas between Whitehall and Independence (Trempealeau County), where wind gusts were estimated at up to 80 mph.									
Vernon County									
Coon Vly	25	0655CST			0	0			Hail(0.75)



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WISCONSIN, Southwest

Monroe County									
5 NW Norwalk	25	0704CST			0	0	1K	2K	Hail(0.88)
Monroe County									
3 NW Norwalk	25	0713CST			0	0			Hail(0.75)
Vernon County									
4 NE Viroqua	25	0730CST			0	0	1.5K	2.5K	Hail(1.00)
Richland County									
1 NW Bunker Hill	25	0803CST			0	0			Hail(0.75)
Richland County									
1 S Cazenovia	25	0822CST			0	0		2.5K	Hail(0.88)

Storm spotters and the public reported hail the size of pennies, nickels and quarters.